

FIGURE 1 (Prior Art)

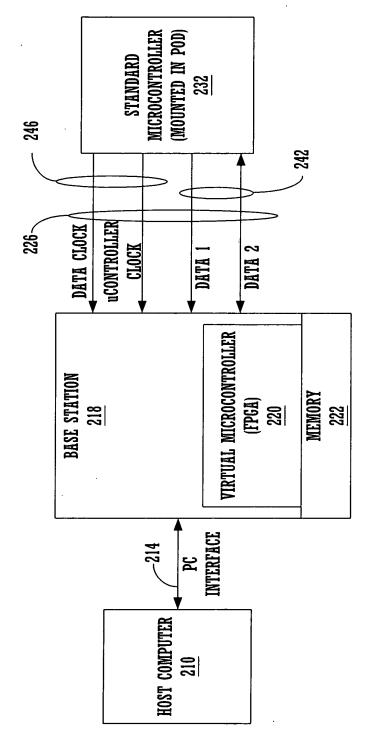


FIGURE 2

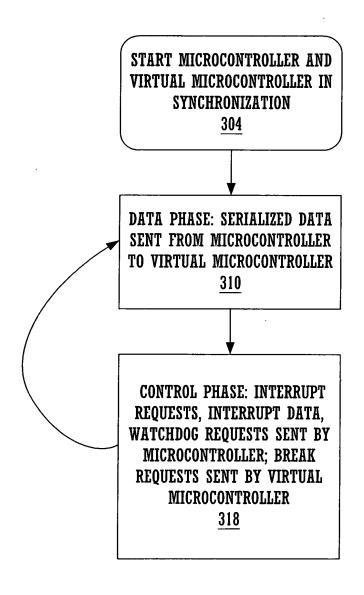


FIGURE 3

START MICROCONTROLLER AND VIRTUAL MICROCONTROLLER IN SYNCHRONIZATION 304

DATA PHASE: RECEIVE SERIALIZED DATA SENT FROM MICROCONTROLLER; BEGIN PROCESSING DATA AS SOON AS RECEIVED TO CATCH UP WITH STATE OF MICROCONTROLLER

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CONTROL PHASE: RECEIVE INTERRUPT REQUESTS, INTERRUPT DATA, WATCHDOG REQUESTS SENT BY MICROCONTROLLER; COMPLETE PROCESSING DATA IF REQUIRED AND ISSUE SIMPLE OR COMPLEX BREAK REQUESTS IF REQUIRED

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FIGURE 4

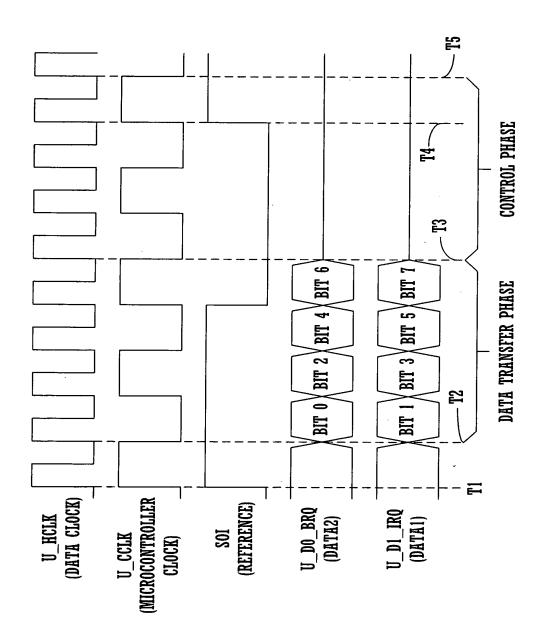


FIGURE 5